

**Iowa Department of Natural Resources
Environmental Protection Commission**

ITEM

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DECISION

**TOPIC Contract - University Hygienic Laboratory (UHL) for impaired waters
 monitoring and assessment**

The Department requests Commission approval of a contract for the amount of \$338,473 with the University Hygienic Laboratory. The contract covers a variety of water monitoring and assessment activities related to the development of restoration plans for impaired water bodies. These activities are designed to obtain specific information needed to better define the impairments through the stressor identification process, and for the development of water quality restoration plans or Total Maximum Daily Loads (TMDLs). Site specific data are needed to better define the impairments and identify pollutant loads or other non-pollutant based stressors, such as habitat alteration that contribute to the impairments. The data collected under this contract will help technical staff make these determinations. The contract period is from July 1, 2006 – June 30, 2007.

In this contract, UHL will collect data for 8 lakes and 10 stream segments that have been prioritized for TMDL development. Various types of stream monitoring and assessment activities will be conducted, including: biweekly and storm event sampling for conventional and toxic water quality parameters; continuous monitoring of dissolved oxygen and water temperature; surveys of benthic macroinvertebrates and fish; stream flow measurement; physical habitat assessment; sediment and water contaminant screening. Lake sampling will include the collection of 3 samples per lake during the summer period. Samples will be analyzed in the laboratory for a suite of water quality parameters and trophic state indicators such as nitrogen, phosphorus, suspended solids, and turbidity. A vertical depth profile of dissolved oxygen, pH, specific conductance, and water temperature will also be obtained on each sampling occasion. Sampling will be coordinated with the ambient lakes monitoring program to avoid duplication of effort. The contract includes funding for one staff person to assist the TMDL program with data compilation and analysis. Federal funding for this contract is provided through Section 319 of the Clean Water Act.

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**ESTIMATED BUDGET AGREEMENT--- FY07 TMDL Monitoring Contract
(IGS/IDNR - UHL)**

DESCRIPTION	VARIABLE PAYMENT AGREEMENT ESTIMATE *
Monitoring Costs By Waterbody	
Buttermilk Creek	
Bi-weekly Monitoring	\$21,372
Biomonitoring	\$6,434
Datalogger Monitoring	\$2,012
Dry Run Creek	
Bi-weekly Monitoring	\$37,900
Event Monitoring	\$7,620
Hecker Creek	
Bi-weekly Monitoring	\$7,015
Biomonitoring	\$2,895
Datalogger Monitoring	\$2,046
Event Monitoring	\$3,300
Lyons Creek	
Bi-weekly Monitoring	\$21,606
Biomonitoring	\$6,361
Event Monitoring	\$6,802
Marrowbone Creek	
Biomonitoring	\$4,989
Datalogger Monitoring	\$3,891
Nutting Creek	
Bi-weekly Monitoring	\$12,197
Biomonitoring	\$2,255
Datalogger Monitoring	\$4,431
Event Monitoring	\$7,687
Palmer Creek	
Biomonitoring	\$3,620
Peck Creek	
Biomonitoring	\$3,432
Silver Creek	
Bi-weekly Monitoring	\$35,555
Biomonitoring	\$3,285
Datalogger Monitoring	\$2,046
Event Monitoring	\$7,507
Yellow River	
Bi-weekly Monitoring	\$10,015
Biomonitoring	\$2,645
Datalogger Monitoring	\$2,028

Event Monitoring	\$4,500
Lakes Monitoring	\$11,188
Major Equipment	\$10,000
Miscellaneous Equipment/Supplies	\$6,000
Sample Shipping	\$2,000
Staffing/Data Management	\$48,767
Column Sub-total	\$313,401
Facilities and Administrative Costs @ 8%	\$25,072
Column Grand Total	\$338,473

COMPLETE COSTS - ESTIMATED	\$338,473
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*The amounts in this column are **estimates** of the actual total costs. Actual costs will be billed on a monthly basis beginning in August 2006 and continuing through August 1, 2007.